8. REFERENCES

ACGIH. 1986. Documentation of the threshold limit values and biological exposure indices. 5th ed. American Conference of Governmental Industrial Hygienists. Cincinnati, OH.

*ACGIH. 1993. Threshold limit values (TLVs) for chemical substances in the work environment for 1993-1994. American Conference of Government Industrial Hygienists. Cincinnati, OH.

*Adkins B Jr, Van Stee EW, Simmons JE, et al. 1986. Oncogenic response of strain A/J mice to inhaled chemicals. J Toxicol Environ Health 17:311-322.

Afolabi OA, Adesulu EA, Qke OL. 1983. Polynuclear aromatic hydrocarbons in some Nigerian preserved freshwater fish species. J Agric Food Chem 31:1083-1090.

*Alexandrov K. 1973. Effect of some derivatives of naphthalene on aryl hydrocarbon (benzo[a]pyrene) hydroxylase in vitro. Experientia 29:1209-1210.

Alexandrov K, Frayssinet C. 1973. Brief communication: in vivo effect of some naphthalene-related compounds on aryl hydrocarbon (benzo[a]pyrene) hydroxylase. J Natl Cancer Inst 51:1067-1069.

Almgren M, Grieser F, Powell JR, et al. 1979. A correlation between the solubility of aromatic hydrocarbons in water and micellar solutions, with their normal boiling points. Journal of Chemical and Engineering Data 24:285-287.

*Ambre J, Ruo TI, Smith-Coggins R. 1986. Mothball composition: Three simple tests for distinguishing paradichlorobenzene from naphthalene. Ann Emerg Med 15:724-726.

*Amoore JE, Hautala E. 1983. Odor as an aid to chemical safety: Odor thresholds compared with threshold limit values and volatilities for 214 industrial chemicals in air and water dilution. J Appl Toxicol 3:272-290.

*Anziulewicz JA, Dick HJ, Chiarulli EE. 1959. Transplacental naphthalene poisoning. Am J Obstet Gynecol 78:519-521.

*APHA. 1992a. Method 6410 (Extractable base/neutrals and acids). In: Standard methods for the examination of water and wastewater. 18th ed. Washington, DC: American Public Health Association.

*APHA. 1992b. Method 6440B (Liquid-liquid extraction chromotographic method). In: Standard methods for the examination of water and wastewater. 18th ed. Washington, DC: American Public Health Association.

*APHA. 1992c. Method 6440A (Polynuclear aromatic hydrocarbons). In: Standard methods for the examination of water and wastewater. 18th ed. Washington, DC: American Public Health Association.

*Cited in text

*APHA. 1992d. Method 6210D (Purge and trap capillary-column gas chromotographic/mass spectrometric method). In: standard methods for the examination of water and wastewater. 18th ed. Washington, DC: American Public Health Association

*APHA. 1992e. Method 6220C (Purge and trap gas chromatographic method II). In: Standard methods for the examination of water and wastewater. 18tb ed. Washington, DC: American Public Health Association

*APHA. 1992f. Method 6230D (Purge and trap gas chromatographic method). In: Standard methods for the examination of water and wastewater. 18th ed. Washington, DC: American Public Health Association

Arena JM. 1970. Poisoning: Toxicology--symptoms--treatments. 2nd ed. Springfield, IL: Charles C. Thomas, 73.

Atkinson R, Aschmann SM. 1987. Kinetics of the gas-phase reactions of alkylnaphthalenes with O_3, N_2O_5 and OH radicals at 298 ± 2 K. Atmos Environ 21:2323-2326.

*Atkinson R, Aschmann SM, Pitts JN Jr. 1984. Kinetics of the reactions of naphthalene and biphenyl with OH radicals and with 0, at 294 ± l K. Environmental Science and Technology 18:110-113.

*Atkinson R, Arey J, Zielinska B, et al. 1987. Kinetics and products of the gas-phase reactions of OH radicals and N_2O_5 with naphthalene and biphenyl. Environmental Science Technology 21:1014-1022.

*ATSDR. 1989. Agency for Toxic Substances and Disease Registry. Decision guide for identifying substance specific data needs related to toxicological profiles; notice. Part V. Atlanta, GA: Agency for Toxic Substances and Disease Registry.

*Bahnick DA, Doucette WJ. 1988. Use of molecular connectivity indices to estimate soil sorption coefficients for organic chemicals. Chemosphere 17:1703-1715.

*Bakke J, Struble C, Gustafsson JA, et al. 1985. Catabolism of premercapturic acid pathway metabolites of naphthalene to naphthols and methylthio-containing metabolites in rats. Proc Natl Acad Sci USA 82:668-671.

*Bakke JE, Davison KL, Larsen GL. 1990. Evidence for the absence of cysteine S-conjugate N-acetyltransferase activity in the metabolism of propachlor, naphthalene, and dichlobanil in calves. Xenobiotica 20:801-807.

*Banerjee S, Baughman GL. 1991. Bioconcentration factors and lipid solubility. Environmental Science Technology 25536-539.

Barnes DG, Dourson M. 1988. Reference dose (RFD): Description and use in health risk assessments. Regul Toxical Pharmacol 8:47 l-486.

Barnes D, Bellin J, DeRosa C, et al. 1987. Reference dose (RfD): Description and use in health risk assessments. Vol. I, Appendix A: Integrated risk information system supportive documentation. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-86/032a.

*Battelle. 1980a. Subchronic toxicity study: Naphthalene (C52904), B6C3F$_1$ mice. Report to U.S. Department of Health and Human Services, National Toxicology Program, Research Triangle Park, NC, by Battelle's Columbus Laboratories, Columbus, OH.

*Battelle. 1980b. Subchronic toxicity study: Naphthalene (C52904), Fischer 344 rats. Report to U. S. Department of Health and Human Services, National Toxicology Program, Research Triangle Park, NC, by Battelle's Columbus Laboratories, Columbus, OH.

Baudot Ph, Viriot ML, Andre JC, et al. 1991. Analysis of polyaromatic hydrocarbons by synchronous fluorescence spectrometry: Application to occupational health. Analysis 19:85-97.

Bedient PB, Rodgers AC, Bouvette TC, et al. 1984. Ground-water quality at a creosote waste site. Ground Water 221318-329.

*Bender ME, Huggett RJ. 1989. Polynuclear aromatic hydrocarbon residues in shellfish: Species variations and apparent intraspecific differences. In: Comparative aspects of tumor development. H.E. Kaiser (ed.). Kluwer Academic Publishers, Doredrecht (Netherlands) 27:226.

Benoit FM, LeBel GE, Williams DT. 1979. Polycyclic aromatic hydrocarbon levels in Eastern Ontario drinking waters, 1978. Bull Environ Contam Toxicol 23.774-778.

*Benson WH, Dorough HW. 1984. Comparative ester hydrolysis of carbaryl and ethiofencarb in four mammalian species. Pesticide Biochemistry and Physiology 21: 199-206.

Berg GL, ed. 1984. Farm chemicals handbook 1984. Willoughby, OH: Meister Publishing Co., C159.

*Bieniek G. 1994. The presence of 1-naphthol in the urine of industrial workers exposed to naphthalene. Occup Environ Med 51:357-359.

Billings RE, Miller NE, Dabbs SE, et al. 1990. Comparison of the toxicity of naphthalene and naphthalene- 1,2-dihydrodiol (DIOL). Biological Reactive Intermediates IV 68l-684.

Bimbaum LS, McKinney JD. 1985. A persistent hexabromonaphthalene isomer is 2, 3, 4, 5, 6, 7-hexabromonaphthalene. J Toxicol Environ Health 16:219-227.

Bimbaum LS, Darcey DJ, McKinney JD. 1983. Hexabromonaphthalene contaminants of polybrominated biphenyls: Chemical composition and disposition in the rat. J Toxicol Environ Health 12:555-573.

*Bjorseth A, Bjorseth O, Fjeldstad PE. 1978a. Polycyclic aromatic hydrocarbons in the work atmosphere: I. Determination in an aluminum reduction plant. Stand J Work Environ Health 41212-223.

*Bjorseth A, Bjorseth O, Fjeldstad PE. 1978b. Polycyclic aromatic hydrocarbons in the work environment. II. Determination in a coke plant. Stand J Work Environ 4:224-236.

Bjorseth A, Bjorseth O, Fjeldstad PE. 1981. Polycyclic aromatic hydrocarbons in the work atmosphere: Determination of area-specific concentrations and job-specific exposure in a vertical pin Soderberg aluminum plant. Stand J Work Environ Health 7:223-232.

*Blomberg S, Roerade J. 1988. An evaluation and comparison of micro-techniques for concentration of volatile components from dilute solutions Chromatographia 25:21-25.

Bock KW, van Ackeren G, Larch F, et al. 1976. Metabolism of naphthalene to naphthalene dihydrodiol glucuronide in isolated hepatocytes and in liver microsomes. Biochem Pharmacol 25.2351-2356.

*Bock KW, von Clausbruch UC, Winne D. 1979. Absorption and metabolism of naphthalene and benzo[a]pyrene in the rat jejunum in situ. Med Biol 57:262-264.

Bohon RL, Claussen WF. 1951. The solubility of aromatic hydrocarbons in water. J Am Chem Sot 73:1571-1578.

Bond DL, Thodos G. 1960. Vapor pressures of alkyl aromatic hydrocarbons. Journal of Chemical and Engineering Data 5:289-292.

Bond JA, Wallace LA, Ostermon-Golkar S, et al. 1992. Symposium overview. Assessment of exposure to pulmonary toxicants: Use of biological markers. Fund Appl Tox 18:161-174.

*Boom A, Marsalek J. 1988. Accumulation of polycyclic aromatic hydrocarbons (PAHs) in an urban snowpack. Sci Total Environ 74:133-148.

Booth GM, Bradshaw WS, Carter MW. 1983. Screening of priority chemicals for potential reproductive hazard, contract 210-81-6012. Report to National Institute for Occupational Safety and Health, Cincinnati, OH, by MESA Corp., Orem, UT. NTIS No. PB83-213017.

*Bos RP, Theuws JL, Jongeneelen FJ, et al. 1988. Mutagenicity of bi-, tri- and tetra-cyclic aromatic hydrocarbons in the “taped-plate assay” and in the conventional SuZmoneZZu mutagenicity assay. Mutat Res 204:203-206.

*Boume MC, Young L. 1934. The metabolism of naphthalene in rabbits. Biochem J 28:803-808.
Boyd MR. 1977. Evidence for the Clara cell as a site of cytochrome P450-dependent mixed-function oxidase activity in lung. Nature 269:713-715.

Boyland E, Sims P. 1958. Metabolism of polycyclic compounds. 12. An acid-labile precursor of 1-naphthylmercapturic acid and naphthol: an N-acetyl-5-(1,2-dihydrohydroxynaphthyl)-L-cysteine. Biochem J 68:440-447.

Boyland E, Sims P. 1960. Metabolism of polycyclic compounds. 16. The metabolism of 1,2-dihydronaphthalene and 1,2-epoxy-1,2,3,4-tetrahydronaphthalene. Biochem J 77: 175- 181 .

Boyland E, Solomon JB. 1955. Metabolism of polycyclic compounds. 8. Acid-labile precursors of naphthalene produced as metabolites of naphthalene. Biochem J 59:518-522.

Boyland E, Weigert F. 1947. Metabolism of carcinogenic compounds. Br Med Bull 4:354-359.

8. REFERENCES

Boyland E, Wiltshire GH. 1953. Metabolism of polycyclic compounds. 7. The metabolism of naphthalene, l-naphthol and 1,2-dihydroxy-1,2-dihydronaphthalene by animals. Biochem J 53:636-641.

Boyland E, Ramsay GS, Sims P. 1961. Metabolism of polycyclic compounds. 18. The secretion of metabolites of naphthalene. 1,2-dihydronaphthalene and 1 ,2-epoxy-1,2,3,4-tetrahydronaphthalene in rat bile. Biochem J 78:376-384.

Bradley RS, Cleasby TG. 1953. The vapour pressure and lattice energy of some aromatic ring compounds. J Chem Sot (Part II): 1690-1692.

*Breger RK, Franklin RB, Lech JJ. 1981. Metabolism of 2-methylnaphthalene to isomeric dihydrodiols by hepatic microsomes of rat and rainbow trout. Drug Metab Dispos 9:88-93.

*Breger RK, Novak RF, Franklin RB, et al. 1983. Further structural analysis of rat liver microsomal metabolites of 2-methylnaphthalene. Drug Metab Dispos 11:319-323.

*Bregman R. 1954. Mothball poisoning. A case presentation. Clinical Proceedings of the Children's Hospital, Washington, DC. 9:1-5.

Brindle ID, Li XF. 1990. Investigation into the factors affecting performance in the determination of polycyclic aromatic hydrocarbons using capillary gas chromatography-mass spectrometry with splitless injection. J Chromatogr 498 1l-24.

Brodzinsky R, Singh HB. 1983. Volatile organic chemicals in the atmosphere: An assessment of available data. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA-600/3-83-027(A).

Bronstein AC, Currance PL. 1988. Emergency care for hazardous materials exposure. St. Louis, MO: The C.V. Mosby Company. 10:103-104.

*Brooks JM, Kennicutt MC, Wade TL, et al. 1990. Hydrocarbon distributions around a shallow water multiwell platform. Environmental Science Technology 24:1079-1085.

*Brown KW, Donnelly KC. 1988. An estimation of risk associated with the organic constituents of hazardous and municipal waste landfill leachates. Hazardous Waste & Hazardous Materials 5(1):1-30.

*Brusseau ML. 1991a. Cooperative sorption of organic chemicals in systems composed of low organic carbon aquifer materials. Environmental Science Technology 25: 1747- 1752.

Brusseau ML. 1991b. Nonequilibrium sorption of organic chemicals: Elucidation of rate-limiting processes. Environmental Science Technology 25: 134-142.

*Buckpitt AR, Bahnson LS. 1986. Naphthalene metabolism by human lung microsomal enzymes. Toxicology 41:333-341.

*Buckpitt AR, Franklin RB. 1989. Relationship of naphthalene and 2-methylnaphthalene metabolism to pulmonary bronchiolar epithelial cell necrosis. Pharmac Ther 41:393-410.

*Buckpitt AR, Richieri P. 1984. Comparative biochemistry and metabolism: Part 2. Naphthalene lung toxicity. Wright-Patterson Air Force Base, OH: Air Force Systems Command, Aerospace Medical Division, Air Force Aerospace Medical Research Laboratory. AFAMRL-TR-84-058.

*Buckpitt AR, Warren DL. 1983. Evidence of hepatic formation, export and covalent binding of reactive naphthalene metabolites in extrahepatic tissues in viva. J Pharmacol Exp Ther 225:8-l 6.

*Buckpitt AR, Bahnson LS, Franklin RB. 1984a. Hepatic and pulmonary microsomal metabolism of naphthalene to glutathione adducts: Factors affecting the relative rates of conjugate formation. J Pharmacol Exp Tber 231.291-300.

Buckpitt AR, Bahnson LS, Franklin RB. 1984b. Intermediacy of 1-naphthol in the covalent binding and pulmonary toxicity of naphthalene. Toxicologist 4:134.

*Buckpitt AR, Bahnson LS, Franklin RB. 1985. Evidence that I-naphthol is not an obligate intermediate in the covalent binding and the pulmonary bronchiolar necrosis by naphthalene. Biochem Biophys Res Commun 126:1097-l 103.

*Buckpitt AR, Bahnson LS, Franklin RB. 1986. Comparison of the arachidonic acid and NADPH-dependent microsomal metabolism of naphthalene and 2-methylnaphthalene and the effect of indomethacin on the bronchiolar necrosis. Biochem Pharmacol 35:645-650.

Buckpitt AR, Buonarati M, Avey LB, et al. 1992. Relationship of cytochrome P450 activity to Clara cell cytotoxicity. II. Comparison of stereo-selectivity of naphthalene epoxidation in lung and nasal mucosa of mouse, hamster, rat and rhesus monkey. J. Pharmacol Exp Ther 261:364-372.

Buckpitt AR, Castagnoli N Jr, Nelson SD, et al. 1987. Stereoselectivity of naphthalene epoxidation by mouse, rat, and hamster pulmonary, hepatic, and renal microsomal enzymes. Drug Metab Dispos 15:491-498.

Buonarati M, Jones AD, Buckpitt A. 1990. In *vivo* metabolism of isomeric naphthalene oxide glutathione conjugates. Drug Metab Dispos 18:183-l 89.

*Bysshe SE. 1982. Bioconcentration factor in aquatic organisms. In: Lyman WJ, ed. Handbook of chemical property estimation methods. New York, NY: McGraw Hill, 5-l -5-30.

*Calabrese EJ. 1986. Ecogenetics: Historical foundation and current status. J Occup Med 28:1096-1102.

Callahan MA, Slimak MW, Gabel NW, et al. 1979. Water-related environmental fate of 129 priority pollutants: Volume I: Introduction and technical background, metals and inorganics, pesticide and PCBs. Washington, DC: U.S. Environmental Protection Agency, Office of Water Planning and Standards. EPA-440/4-79-029a. NTIS No. PB80-204373.

*Carroll GJ, Oberacker DA. 1989. Characteristics of pilot and full-scale hazardous waste incinerator ash. Cincinnati, OH: U.S. Environmental Protection Agency. EPA/600/14.

CCRIS. 1992. Chemical carcinogenesis research information system. National Library of Medicine, Bethesda, MD. November 2, 1992.

8. REFERENCES

CCTTE. 1988. Computerized listing of chemicals being tested for toxic effects. United Nations Environment Programme, International Programme on Chemical Safety, International Register of Potentially Toxic Chemicals, Geneva, Switzerland.

*CDC/ATSDR. 1990. Biomarkers of organ damage or dysfunction for the renal, hepatobiliary and immune systems. Atlanta, GA: CDC/ATSDR Subcommittee on Biomarkers of Organ Damage and Dysfunction, Centers for Disease Control, Agency for Toxic Substances and Disease Registery. Summary report, August 27, 1990.

*CEH. 1993. Chemical Economics Handbook. File 359 on DIALOG. DIALOG Information Services, Inc. Palo Alto, CA. January 1993.

Cerniglia CE, Gibson DT, Van Baalen C. 1979. Algal oxidation of aromatic hydrocarbons: Formation of 1-naphthol from naphthalene by *Agmenellum quadruplicatum,* strain PR-6. Biochem Biophys Res Comm 88:50-58.

Cerniglia CE, Gibson DT, Van Baalen C. 1980. Oxidation of naphthalene by cyanobacteria and microalgae. J Gen Microbial 116:495-500.

Cemiglia CE, Freeman JP, Althaus JR, et al. 1983. Metabolism and toxicity of l- and 2-methylnaphthalene and their derivatives in cyanobacteria. Arch Microbial 136:177-183.

Chapta SC, Boyer JM. 1990. Fate of pollutants. Research Journal, Water Pollution Control Federation 62:569-577.

Chasseaud LF. 1979. The role of glutathione and glutathione S-transferases in the metabolism of chemical carcinogens and other electrophilic agents. Adv Cancer Res 29:175-274.

Chen KC, Dorough HW. 1979. Glutathione and mercapturic acid conjugations in the metabolism of naphthalene and 1-naphthyl N-methylcarbamate (carbaryl). Drug Chem Toxicol 2:331-354.

Chin YP, Weber WJ. 1989. Estimating the effects of dispersed organic polymers on the sorption of contaminants by natural solids. 1. A predictive thermodynamic humic substance-organic solute interaction model. Environmental Science Technology 23:978-984.

*Chichester CH, Buckpitt AR, Chang A, et al. 1994. Metabolism and cytotoxicity of naphthalene and its metabolites in isolated murine Clara cells. Mol Pharmacol 45:664-672.

*Cho M, Chichester C, Morin D, et al. 1994a. Covalent interactions of reactive naphthalene metabolites with proteins. J Pharmacol Exp Ther 269:881-889.

*Cho M, Jedrychowski R, Hammock B, et al. 1994b. Reactive metabolite binding to hemoglobin and albumin. Fundam Appl Toxicol 22:26-33.

*Chuang JC, Mack GA, Kuhlman MR, et al. 1991. Polycyclic aromatic hydrocarbons and their derivatives in indoor and outdoor air in an eight-home study. Atmos Environ 25B:369-380.

Chugh KS, Singhal PC, Sharma BK, et al. 1977. Acute renal failure due to intravascular hemolysis in the North Indian patients. Am J Med Sci 274:139-146.

*Chusid E, Fried CT. 1955. Acute hemolytic anemia due to naphthalene ingestion. AMA Am J Dis Child 89:612-614.

Clansky KB, ed. 1986. Chemical guide to the OSHA hazard communication standard. Burlingame, CA: Roytech Publications Inc., 58, 653-657.

CLC. 1988. Coordinated list of chemicals. U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC.

Cock TC. 1957. Acute hemolytic anemia in the neonatal period. AMA Am J Dis Child 94:77-79.

*Cole RH, Frederick RE, Healy RP, et al. 1984. Preliminary findings of the priority pollutant monitoring project of the nationwide urban runoff program. J Water Pollut Control Fed 56:898-908.

*Connor TH, Thiess JC, Hanna HA, et al. 1985. Genotoxicity of organic chemicals frequently found in the air of mobile Romes. Toxicol Lett 25:33-40.

*Coons S, Byrne M, Goyer M, et al. 1982. An exposure and risk assessment for benzo[a]pyrene and other polycylic aromatic hydrocarbons: Volume II. Naphthalene. Final draft report. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards.

*Corner ED, Young L. 1954. Biochemical studies of toxic agents: 7. The metabolism of naphthalene in animals of different species. Biochem J 58:647-655.

Correa M, Venables BJ. 1985. Bioconcentration of naphthalene in tissues of the white mullet (Mugil curema). Environ Toxicol Chem 4:227-231.

*Cripps GC. 1992. Baseline levels of hydrocarbons in seawater of the southern ocean. Natural variability and regional patterns. Marine Pollution Bulletin 24:109-l 14.

Daly JW, Jerina DM, Witkop B. 1972. Arene oxides and the NIH shift: The metabolism, toxicity and carcinogenicity of aromatic compounds. Experientia 28: 1129-1149.

Dass C. 1990. Fast atom bombardment combined with mass spectrometry for characterization of polycyclic aromatic hydrocarbons. J Am Sot Mass Spectrom 1:405-412.

*Dawson JP, Thayer WW, Desforges JF. 1958. Acute hemolytic anemia in the newborn infant due to naphthalene poisoning: Report of two cases, with investigations into the mechanism of the disease. Blood 13:1113-1125.

*Dean BS, Lopez G, Krenzelok EP. 1992. Environmentally-induced methemoglobinemia in an infant. Clinical Toxicology 30: 127- 133.

*Dinsdale D, Verschoyle RD. 1987. Pulmonary toxicity of naphthalene derivatives in the rat. Arch Toxicol (Suppl 11): 288-291.

Doherty MD, Cohen GM. 1984. Metabolic activation of 1-naphthol by rat liver microsomes to 1,4-naphthoquinone an covalent binding species. Biochem Pharmacol 33:3201-3208.

Doherty DM, Cohen GM, Smith MT. 1984. Mechanisms of toxic injury to isolated hepatocytes by 1-naphthol. Biochem Pharmacol 33:543-549.

*Eastmond DA, Booth GM, Lee ML. 1984. Toxicity, accumulation, and elimination of polycyclic aromatic sulfur heterocycles in Duphnia magna. Arch Environ Contam 13:105-111.

Efthymiou ML, Gervais P. 1972. [Accidental poisoning in children.] Cah Med 13:831-835. (French)

*Ehrlich GG, Goerlitz DF, Godsy EM, et al. 1982. Degradation of phenolic contaminants in ground water by anaerobic bacteria: St. Louis Park, Minnesota. Ground Water 20:703-710.

*Eisele GR. 1985. Naphthalene distribution in tissues of laying pullets, swine, and dairy cattle. Bull Environ Contam Toxicol 34:549-556.

Eldrige JE, Shanmugam K, Bobalek EG, et al. 1983. PAH emissions from paving asphalt in laboratory simulation. 471-482.

Ellenhorn MJ, Barceloux DG. 1988. Medical toxicology: diagnosis and treatment of human poisoning. New York, NY: Elsevier 904.

Enzminger JD, Ahlert RC. 1987. Environmental fate of polynuclear aromatic hydrocarbons in coal tar. Environ Tech Lett 8:269-278.

*EPA. 1980a. Ambient water quality for polynuclear aromatic hydrocarbons. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA-440/5-80-069.

*EPA. 1980b. U.S. Environmental Protection Agency. Federal Register 45:33084-33133.

*EPA. 1980c. Ambient water quality criteria for: Naphthalene. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA-440/5-80-059. NTIS No. PB82-117707.

*EPA. 1982a. Test method: Polynuclear aromatic hydrocarbons - method 610. In: Longbottom JE, Lichtenberg JJ, eds. Test methods: Methods for organic chemical analysis of municipal and industrial wastewater. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. EPA-600/4-82-057.

*EPA. 1982b. Test method: Base/neutrals and acids - method 625. In: Longbottom JE, Lichtenberg JJ, eds. Test methods: Methods for organic chemical analysis of municipal and industrial wastewater. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. EPA-600/4-82-057.

EPA. 1983. Treatability manual: Volume I. Treatability data. Washington, DC: Environmental Protection Agency, Office of Research and Development. EPA-600/2-82-00la.

EPA. 1984. Health effects assessment for naphthalene. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA/540/i-86-014.

*EPA. 1985. U.S. Environmental Protection Agency: Part II. Federal Register 50:13456-13522.

EPA. 1986. Health and environmental effects profile for naphthalene. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/x-861241. NTIS No. PB88-242383.

*EPA. 1986a. Reference values for risk assessment. Final draft. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Solid Waste. ECAO-CIN-477.

*EPA. 1986b. Method 8250: Gas chromatography/mass spectrometry for semivolatile organics: Packed column technique. In: Test methods for evaluating solid waste. SW-846. 3rd ed. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

*EPA. 1986c. Method 8270: Gas chromatography/mass spectrometry for semivolatile organics: Capillary column technique. In: Test methods for evaluating solid waste. SW-846. 3rd ed. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

*EPA. 1986d. Method 8410: Capillary column analysis of semivolatile organic compounds by gas chromatography/Fourier transform infrared (GC/FT-IR) spectrometry. In: Test methods for evaluating solid waste. SW-846. 3rd ed. Washington, DC: US. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

*EPA. 1987a. Summary review of health effects associated with naphthalene: Health issue assessment. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development. EPA/600-8-87/055F.

*EPA. 1987b. U.S. Environmental Protection Agency: Part II. Federal Register 52:25690-25717.

*EPA. 1987c. U.S. Environmental Protection Agency: Part II. Federal Register 52:25942-25943.

*EPA. 1988a. Health effects assessment for naphthalene. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, Office of Research and Development. EPA/600/8-89/094.

*EPA. 1988b. Updated health effects assessment for naphthalene. Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office. Final Draft ECAOCIN-H014a.

*EPA. 1988c. U.S. Environmental Protection Agency: Part II. Federal Register 53:31138-31222.

*EPA. 1988d. U.S. Environmental Protection Agency: Part II. Federal Register 53:4500-4539.

*EPA. 1988e. U.S. Environmental Protection Agency: Part V. Federal Register 53:38642-38654.

*EPA. 1988f. U.S. Environmental Protection Agency. Federal Register. 53:9138-9141.

*EPA. 1989a. Determination of benzo(a)pyrene [B(a)P] and other polynuclear aromatic hydrocarbons (PAHs) in indoor air. U.S. Environmental Protection Agency.

EPA. 1989b. Interim methods for development of inhalation reference doses. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA/600/8-90/066A.

*EPA. 1989c. Interim Methods for development of inhalation references doses. U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. Washington, DC. EPA 600/8-88/066F"

*EPA. 1989d. Recognition and management of pesticide poisonings. 4th ed. Washington, DC: U.S. Environmental Protection Agency. EPA-54019-88-001.

*EPA. 1989e. U.S. Environmental Protection Agency: Part II. Federal Register. 54: 1056-I 119.

EPA. 1989f. U.S. Environmental Protection Agency: Part V. Federal Register 54:33461.

*EPA. 1990a. Compendium of methods for the determination of air pollutants in indoor air. Research Triangle Park, NC: U.S. Environmental Protection Agency, Atmospheric Research and Exposure Assessment Laboratory. EPA/600/S4-90/010.

*EPA. 1990b. Interim methods for development of inhalation reference concentrations. EPA 600/8-90/066A, Environmental Criteria and Assessment Office, Office of Research and Development, Research Triangle Park, NC. August.

*EPA. 1990c. Method 1625 (Containing a codification of documents of general applicability and future effect). In: U.S. Environmental Protection Agency, Code of Federal Regulations 40 CFR 136.

*EPA. 1990d. Method 550. In: Determination of polycyclic aromatic hydrocarbons in drinking water by liquid-liquid extraction and HPLC with coupled ultraviolet and fluorescence detection. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Monitoring Systems Laboratory, 121-142.

*EPA. 1990e. Method 550.1. In: Determination of polycyclic aromatic hydrocarbons in drinking water by liquid-liquid extraction and HPLC with coupled ultraviolet and fluorescence detection. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Monitoring Systems Laboratory, 143-167.

EPA. 1990f. U.S. Environmental Protection Agency: Part II. Federal Register 55:22520-22521, 22583, 22598.

*EPA. 1991a. Drinking water criteria document for polycyclic aromatic hydrocarbons (PAHs). Cincinnati, OH: U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment. ECAO-CIN-D0l0.

*EPA. 1991b. U.S. Environmental Protection Agency: Part II. Federal Register 56:50978, 51033, 51037.

EPA. 1991c. U.S. Environmental Protection Agency: Part III. Federal Register 56:7134-7135.

*EPA. 1994. Drinking water health advisory. Office of Water, U.S. Environmental Protection Agency.

Epsey, Huston and Associates. 1985. Bioassay testing of sample 5601-56-l in fresh water with the *Lepomis macrochirus* and *Daphnia magna:* Naphthalene. Report to Texaco, Inc., Glenham, NY by Epsey, Huston and Associates, Inc., Austin, TX. EH&A Job No. 5863.

*Fabacher DE, Hodgson E. 1977. Hepatic mixed-function oxidase activity in mice treated with methylated benzenes and methylated naphthalenes. J Toxicol Environ Health 2:1143-l 146.

*Fait DW, Nachreiner RW. 1985. Naphthalene acute inhalation toxicity study. Report to Texaco, Inc., Beacon, NY, by Bushy Run Research Center, Union Carbide, Export, PA. Project No. 48-511. [Unpublished]

*Familusi JB, Dawodu AH. 1985. A survey of neonatal jaundice in association with household drugs and chemicals in Nigeria. Ann Trop Paediatr 5:219-222.

*Florin I, Rutberg L, Curvall M, et al. 1980. Screening of tobacco smoke constituents for mutagenicity using the Ames test. Toxicology 18:219-232.

Franklin RB. 1987. Naphthalene. In: Synder R, ed. Ethel Browning's toxicity and metabolism of industrial solvents. 2nd ed. Volume I: Hydrocarbons. New York, NY: Elsevier Science Publications, 153-175.

*Frantz SW, VanMiller JP, Hengler WC. 1986. Ninety-day (sub-chronic) dermal toxicity study with naphthalene in albino rats. Report to Texaco, Inc., Beacon, NY, by Bushy Run Research Center Union Carbide, Export, PA. Project No. 49-539 revised. [Unpublished]

*Freeman AE, Weisburger EK, Weisburger JH, et al. 1973. Transformation of cell cultures as an indication of the carcinogenic potential of chemicals. J Nat1 Cancer Inst 51:799-807.

Freitag D, Ballhorn L, Geyer H, et al. 1985. Environmental hazard profile of chemicals: An experimental method for the assessment of the behaviour of organic chemicals in the ecosphere by means of simple laboratory tests with ^{14}C labelled chemicals. Chemosphere 14:1589-1616.

*FSTRAC. 1990. Summary of state and federal drinking water standards and guidelines. Washington, DC: Federal-State Toxicology and Regulatory Alliance Committee, Chemical Communication Subcommittee.

Furton KG, Rein J. 1991. Effect of microextractor cell geometry on supercritical fluid extraction recoveries and correlations with supercritical fluid chromatographic data. Anal Chim Acta 248:263-270.

Gadsden RH, Mellette RR, Miller WC Jr. 1958. Scrap-iron intoxication. JAMA 168:1220-1224.

*Gaines TB. 1969. Acute toxicity of pesticides. Toxicol Appl Pharmacol 14:515-534.

*Gandy J, Millner GC, Bates HK, et al. 1990. Effects of selected chemicals on the glutathione status in the male reproductive system of rats. J Toxicol Environ Health 29:45-57.

*Gatehouse D. 1980. Mutagenicity of 1,2 ring-fused acenaphthenes against *S. typhimurium* TA1537 and TA1538: structure-activity relationships Mutation Research 78~121-135.

*GDCH. 1992. Gesellschaft Deutscher Chemiker. Methylnaphthalenes. In: GDCH-Advisory Committee on existing chemicals of environmental relevance (BUA). BUA Report 47.

Gerarde HW. 1962. The aromatic hydrocarbons. In: Patty FA, ed. Industrial hygiene and toxicology. 2nd ed. Vol. II. Toxicology. New York, NY: John Wiley and Sons, 1237-1239.

*Germansky M, Jamall IS 1988. Organ-specific effects of naphthalene on tissue peroxidation, glutathione peroxidases and superoxide dismutase in the rat. Arch Toxicol 61:480-483.

*Geyer H, Sheehan P, Kotzias D, et al. 1982. Prediction of ecotoxicological behaviour of chemicals: Relationship between physico-chemical properties and bioaccumulation of organic chemicals in the mussel1 *Mytilus edulis*. Chemosphere 11:1121-1134.

Ghess MJ, Wilbourn J, Tossavainen A, et al. 1986. Information bulletin on the survey of chemicals being tested for carcinogenicity. Lyon, France: International Agency for Research on Cancer, 250.

*Ghetti G, Mariani L. 1956. [Eye changes due to naphthalene]. Med Lav 47533-538. (Italian)

*Gidron E, Leurer J. 1956. Naphthalene poisoning. Lancet (February 4):228-230.

*Gold KW, Naugle DF, Berry, MA. 1991. Indoor Air-Assessment; Indoor Air Concentrations of Environmental Carcinogens. EPA 600/8-901042, Environmental Criteria and Assessment Office, Office of Research and Development, Research Triangle Park, NC. January.

Goldfrank LR, Flomenbaum NE, Lewin NA, et al. 1990. Goldfrank's toxicologic emergencies. Fourth edition. Norwalk, CT: Appleton & Lange 763-767.

Gollahon LS. 1991. Chromosomal damage to preimplantation mouse embryos in vitro by naphthalene and aflatoxin B,. Dissertation Abstracts International 52:694-B.

Gollahon LS, Iyer P, Martin JE, et al. 1990. Chromosomal damage to preimplantation embryos in vitro by naphthalene. Vet Anatomy Dept and TEES Engineering Toxicology Division, Texas A&M Univ 274: 1094.

*Gosselin RE, Smith RP, Hodge HC, et al. 1984. Clinical toxicology of commercial products. 5th ed. Baltimore, MD: Williams and Wilkins, 11-153, III-307 - III-311.

Grant WM. 1974. Toxicology of the eye. 2nd ed. Springfield, IL: Thomas CC. 733-739.

*Grant WM. 1986. Toxicology of the eye. 3rd ed. Springfield, IL: Thomas CC. 650-655.

Green DR, Le Pape D. 1987. Stability of hydrocarbon sample, on solid-phase extraction columns. Anal Chem 49:699-703.

Griffin KA, Franklin RB. 1980. Uptake of naphthalene and 2-methylnaphthalene in rodent lung slices. Pharmacologist 22:471.

Griffin KA, Franklin RB. 1982. The effects of three pulmonary toxic agents, naphthalene, 2-methylnaphthalene and 4-ipomeanol on the in vtvo irreversible binding of [3H]-benzo[a]pyrene. IRCS J Med Sci 10:373-374.

*Griffin KA, Johnson CB, Breger RK, et al. 1981. Pulmonary toxicity, hepatic, and extrahepatic metabolism of 2-methylnaphthalene in mice. Toxicol Appl Pharmacol 61:185-196.

*Griffin KA, Johnson CB, Breger RK, et al. 1982. Effects of inducers and inhibitors of cytochrome P-450-linked monooxygenases on the toxicity, *in vitro* metabolism and *in vivo* irreversible binding of 2-methylnaphthalene in mice. J Pharmacol Exp Ther 221:517-524.

*Griffin KA, Johnson CB, Breger RK, et al. 1983. Pulmonary toxicity of 2-methylnaphthalene: Lack of a relationship between toxicity, dihydrodiol formation and irreversible binding to cellular macromolecules in DBA/2J mice. Toxicology 26:213-230.

Grigor WG, Robin H, Harley JD. 1966. An Australian variation of full-moon disease. Med J Aust 2:1229-1230.

*Gupta R, Singha1 PC, Muthusethupathy MA, et al. 1979. Cerebral oedema and renal failure following naphthalene poisoning. Journal of the Association of Physicians, India 27:347-348.

*Haggerty RJ. 1956. Toxic hazards: Naphthalene poisoning. The New England Journal of Medicine 255:919-920.

*Hansen AM, Olsen IL, Holst E, et al. 1991. Validation of a high-performance liquid chromatography/fluorescence detection method for the simultaneous quantification of fifteen polycyclic aromatic hydrocarbons. Ann Occup Hyg 35:603-611.

Hanssler H. 1964. [Life-threatening naphthalene intoxication of an infant through vapor in fumes.] Dtsch Med Wochenschr 89:1794-1797. (German)

*Harden RA, Baetjer AM. 1978. Aplastic anemia following exposure to paradichlorobenzene and naphthalene. J Occup Med 20:820-822.

*Hardin BD, Bond GP, Sikov MR, et al. 1981. Testing of selected workplace chemicals for teratogenic potential. Stand J Work Environ Health 7(Suppl 4):66-75.

Hardin BD, Schuler RL, Burg JR, et al. 1987. Evaluation of 60 chemicals in a preliminary developmental toxicity test. Teratogenesis Carcinog Mutagen 7:29-48.

*Harkov R. 1986. Semivolatile organic compounds in the atmosphere: A review. J Environ Sci Health A21:409-433.

Harmon HJ. 1988. Effect of naphthalene on cytochrome oxidase activity. Bull Environ Contam Toxicol 40:105-109.

Harmon HJ, Sanbom MR. 1982. Effect of naphthalene on respiration in heart mitochondria and intact cultured cells. Environ Res 29:160-173.

Harris RP, Berdugo V, O'Hara SC, et al. 1977. Accumulation of ^{14}C-l-naphthalene by an oceanic and an estuarine copepod during long-term exposure to low-level concentrations. Marine Biology 42:187-195.

Harvey RG, Halonen M. 1968. Interaction between carcinogenic hydrocarbons and nucleosides. Cancer Res 28:2183-2186.

Harvey RG, Pataki J, Wilke RN, et al. 1976. Polycyclic aryloxiranes: A new class of carcinogens. Cancer Lett 1:339-343.

Hathaway SW. 1980. Sources of toxic compounds in household wastewater. Cincinnati, OH: US. Environmental Protection Agency, Office of Research and Development. EPA-600/2-80-128. NTIS No. PB81-110942.

Hauser TR, Bromberg SM. 1982. EPA's monitoring program at Love Canal 1980. Environmental Monitoring and Assessment 2:249-271.

*Hawthorne SB. 1988. 1988 workshop on supercritical fluid chromatography. American Laboratory (August 1988):6-8.

*HazDat. 1994. Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta, GA.

*HEAST. 1992. Health effects assessment summary tables, FY 1991. Washington, DC: U.S. Environmental Protection Agency.

*Heitzer A, Malachowsky K, Thonnard JE, et al. 1994. Optical biosensor for environmental on-line monitoring of naphthalene and salicylate bioavailability with an immobilized bioluminescent catabolic reporter bacterium. Applied and Environmental Microbiology 60(5): 1487-94.

*Heitzer A, Webb OF, Thonnard JE, et al. 1992. Specific and quantitative assessment of naphthalene and salicylate bioavailability by using a bioluminescent catabolic reporter bacterium. Appl Environ Microbial 58:1839-1846.

*Herbes SE. 1981. Rates of microbial transformation of polycylic aromatic hydrocarbons in water and sediments in the vicinity of a coal-coking wastewater discharge. Appl Environ Microbial 41:20-28.

*Herbes SE, Schwa11 LR. 1978. Microbial transformation of polycyclic aromatic hydrocarbons in pristine and petroleum contaminated sediments. Appl Environ Microbial 35:306-316.

*Herbes SE, Southworth GR, Shaeffer DL, et al. 1980. Critical pathways of polycyclic aromatic hydrocarbons in aquatic environments. In: Witschi H, ed. The scientific basis of toxicity assessment. Amsterdam, The Netherlands: Elsevier/North Holland Biomedical Press, 113-128.

Herman M. 1981. Synergistic effects of individual polycyclic aromatic hydrocarbons on the mutagenicity of their mixtures. Mutation Research 90~399-409.

Hesse S, Mezger M. 1979. Involvement of phenolic metabolites of [^{14}C]-naphthalene and [^{14}C]-Naphthol formed by rat liver microsomes. Mol Pharmacol 16:667-675.

Hesse S, Mezger M, Schwarz LR. 1981. Formation of reactive metabolites of ^{14}C-naphthalene in isolated rat hepatocytes and the effect of decreased glucuronidation and sulfation. Adv Exp Med Biol 136 (Pt A):739-744.

Hites RA, Biemann K. 1972. Water pollution: Organic compounds in the Charles River, Boston. Science 178:58-160.

*Ho JS. 1989. A sequential analysis for volatile organics in water by purge-and-trap capillary column gas chromatography with photionization and electrolytic conductivity detectors in series. J Chromatogr Sci 27191-98.

Hockwin O, Laser H, Wegener A. 1986. Investigations on rat eyes with diabetic cataract and naphthalene cataract by Zeiss-Scheimpflug measuring system SLC. Graefes Arch Clin Exp Ophthalmol 224:502-506.

Hofmann VP. 1958. IJber den Reinnaphthalingehalt des Gases. Gas und Wasserfach 91:301-304. (German)

*Honda T, Kiyozumi M, Kojima S. 1990. Alkylnaphthalene. XI. Pulmonary toxicity of naphthalene, 2-methylnaphthalene, and isopropyhraphthalenes in mice. Chem Pharm Bull 38:3130-3135.

Horning MG, Kary CD, Gregory PA, et al. 1976. Recychng of naphthalene and naphthalene metabolites through monooxygenase systems. Toxicol Appl Pharmacol 37: 118.

*Horning MG, Stillwell WG, Griffin GW, et al. 1980. Epoxide intermediates in the metabolism of naphthalene by the rat. Drug Metab Dispos 8:404-414.

Horton AW, Denman DT, Trosset RP. 1957. Carcinogenesis of the skin. II. The accelerating properties of aliphatic and related hydrocarbons. Cancer Res 17:758-766.

*Howard PH. 1989. Handbook of environmental fate and exposure data for organic chemicals. Vol. 1. Lewis Publishers, 408-421.

HSDB. 1988. Hazardous Substances Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. December 1988.

*HSDB. 1995. Hazardous Substance Data Bank. National Library of Medicine, National Toxicology Information Program, Bethesda, MD. January 3, 1995.

*Hughes CS, Bakker J, Kamatari 0. 1985. CEH product review: Naphthalene. In: Chemical economics handbook. Menlo Park, CA: SRI International, 300.7600 C-Z.

*Hung IF, Fang HF, Lee TS. 1992. Aliphatic and aromatic hydrocarbons in indoor air. Bull Environ Contam Toxicol 48:579-584.

*IARC. 1993. IARC scientific publication on indoor concentrations of environmental carcinogens. Volume 12: Indoor air. International Agency for Research on Cancer, World Health Organization, Lyon, France. Publication no. 109, chapter 5.

*IARC. 1995. Facsimile communication 2/27/95 to Ann Walker, Sciences International, Inc., regarding the evaluation of the carcinogenicity of naphthalene. International Agency for Research on Cancer, World Health Organization, Lyon, France.

*ICRP (International Commission on Radiological Protection). 1975. Report on the task group on reference man. New York, NY: Pergamon Press.

Ikemoto F, Iwata S. 1978. Sulfhydryl contents of soluble and insoluble lens proteins in naphthalene and traumatic cataracts in rabbits. Ophthalmic Res 10:194-201.

*IRIS. 1995. Integrated Risk Information System. U.S. Environmental Protection Agency, Washington, DC. January 5, 1995.

Irle U. 1964. [Acute hemolytic anemia caused by naphthalene inhalation in two premature babies and one neonate.] Dtsch Med Wochenschr 89:1798-1800. (German)

IRPTC. 1989. IRPTC data profile on: 2-methylnaphthalene. International Register of Potentially Toxic Chemicals, United Nations Programme, Geneva, Switzerland. January 1989.

IRPTC. 1989. IRPTC data profile on: Naphthalene. International Register of Potentially Toxic Chemicals, United Nations Programme, Geneva, Switzerland. January 1989.

*Iyer P, Martin JE, Irvin TR. 1991. Role of biotransformation in the in vitro preimplantation embryotoxicity of naphthalene. Toxicology 66:257-270.

Jafvert CT. 1991. Sediment- and saturated-soil-associated reactions involving an anionic surfactant (dodecylsulfate). 2. Partition of PAH compounds among phases. Environmental Science Technology 25:1039-1045.

James RC. 1985. Hematotoxicity: Toxic effects in the blood. In: Williams PL, Burson JL, eds. Industrial toxicology. New York, NY: Van Nostrand Reinhold Company, 59-77.

Jerina DM, Daly JW, Witkop B, et al. 1968. The role of arene oxide-oxepin systems in the metabolism of aromatic substrates, III. Formation of 1,2-naphthalene oxide from naphthalene by liver microsomes. J Am Chem Sot 90:6526-6527.

Jerina DM, Daly JW, Witkop B, et al. 1970. 1,2-Naphthalene oxide as an intermediate in the microsomal hydroxylation naphthalene. Biochemistry 9: 147-155.

Johnstone RA, Quan PM. 1963. Naphthalenes in cigarette smoke [Abstract]. Nature 199:1184.

*Kaden DA, Hites RA, Thilly WG. 1979. Mutagenicity of soot and associated polycyclic aromatic hydrocarbons of *Salmonella typhimurium.* Cancer Res 39:4152-4159.

*Kalow W. 1962. Pharmacogenetics: Heredity and the response to drugs. Philadelphia, PA: W.B. Saunders Company, 116-120.

*Kanekal S, Plopper C, Morin D, et al. 1990. Metabolic activation and bronchiolar Clara cell necrosis from naphthalene in the isolated perfused mouse lung. J Pharmacol Exp Ther 252:428-437.

Kanekal S, Plopper C, Morin D, et al. 1991. Metabolism and cytotoxicity of naphtbalene oxide in the isolated perfused mouse lung. The Journal of Pharmacology and Experimental Therapeutics 256:391-401.

*Kappeler T, Wuhrmann K. 1978. Microbial degradation of the water-soluble fraction of gas oil - I. Water Research 12:327-333.

*Karickhoff SW. 1981. Semi-empirical estimation of sorption of hydrophobic pollutants on natural sediments and soils. Chemosphere 10:833-846.

*Kawabata TT, White KL. 1990. Effects of naphthalene and naphthalene metabolites on the in vitro humoral immune response. Journal of Toxicology and Environmental Health 30:53-67.

*Keimig SD, Morgan DP. 1986. Urinary 1-naphthol as a biological indicator of naphtbalene exposure. Appl Ind Hyg 2:61-65.

*Kenaga EE. 1980. Predicted bioconcentration factors and soil sorption coefficients of pesticides and other chemicals. Ecotoxicol Environ Safety 4:26-38.

Kinsey VE, Merriam FC. 1950. Studies on the crystalline lens: II. Synthesis of glutathione in the normal and cataractous rabbit lens. Arch Ophthalmol 44:370-380.

*Klecka GM, Davis JW, Gray DR, et al. 1990. Natural bioremediation of organic contaminants in ground water: Cliff-Dow Superfund site. Ground Water 28(4):534-543.

Kleinfeld M, Messite J, Swencicki R. 1972. Clinical effects of chlorinated naphthalene exposure. J Occup Med 14:377-379.

Knake E. 1956. Uber schwache geschwulsterzeugende wirkung von naphthalin und benzol. Virchows Arch, Bd. 329:141-176. (German)

Koch HR, Doldi K. 1975. Naphthalene cataracts in rats of differently pigmented strains [Abstract]. Exp Eye Res 20:180.

Kodama H, Ubuka T, Koyama T, et al. 1974. Effect of naphthalene feeding on the cysteine metabolism in rabbits. Physiol Chem Phys 6:107-112.

*Kojima M. 1992. Enzymatic distribution patterns of rat lenses and the changes that occur during naphthalene cataract development. Ophthalmic Res 24:73-82.

*Kraemer M, Bimboes D, Greim H. 1974. *S. typhimurium* and *E. coli* to detect chemical mutagens. Arch Pharmacol 284:R46.

Kroener R, Kleber E, Elstner EF. 1991. Cataract induction by 1,2-naphthoquinone. II. Mechanism of hydrogenperoxide formation and inhibition by iodide. Z. Naturforsch 46:285-290.

Krstulovic AM, Rosie DM, Brown PR. 1977. Distribution of some atmospheric polynuclear aromatic hydrocarbons. American Laboratory 7:11-18.

*Kulka U, Schmid E, Huber R, et al. 1988. Analysis of the cytogenetic effect in human lymphocytes induced by metabolically activated 1- and 2-methylnaphthalene. Mutat Res 208: 155-158.

*Kurz JM. 1987. Naphthalene poisoning: Critical care nursing techniques. Dimens Crit Care Nurs 6:264-270.

Lai DY. 1984. Halogenated benzenes, naphthalenes, biphenyls and terphenyls in the environment: Their carcinogenic, mutagenic and teratogenic potential and toxic effects. J Environ Sci Health C2:135-184.

*La Regina J, Bozzelli JW, Harkov R, et al. 1986. Volatile organic compounds at hazardous waste sites and a sanitary landfill in New Jersey: An up-to-date review of the present situation. Environmental Progress 5:18-28.

*Lebo JA, Zajicek JL, Schwartz T, et al. 1991. Determination of monocyclic and polycyclic aromatic hydrocarbons in fish tissue. J Assoc Off Anal Chem 74(3):538-544.

Lee RF, Anderson JW. 1977. Fate and effect of naphthalenes: Controlled ecosystem pollution experiment. Bulletin of Marine Science 27: 127-134.

Lee G, Ray C, Siemers R, et al. 1989. Recent developments in high speed gas chromatography. American Laboratory (February):108-119.

Levy GN, Weber WW. 1988. High-performance liquid chromatographic analysis of ^{32}P-postlabeled DNA-aromatic carcinogen adducts. Anal Bioch 174:38 l-392.

*Lezenius A. 1902. [A fall from naphthlene-induced cataracts in masons]. Klin Monatsbl Augenheilkd. 40: 129. (German)

*Liao W, Smith WD, Chiang TC. 1988. Rapid, low-cost cleanup procedure for determination of semivolatile organic compounds in human and bovine adipose tissues. J Assoc Off Anal Chem 71(4):742-747.

*Linick M. 1983. Illness associated with exposure to naphthalene in mothballs - Indiana. MMWR 32:34-35.

*Lofgren L, Persson K, Stromevall AM, et al. 1991. Exposure of commuters to volatile aromatic hydrocarbons from petrol exhaust. Sci Total Environ 108:225-233.

*Lopez-Avila V, Dodhiwala NS, Beckert WF. 1991. Project summary: method for the supercritical fluid extraction of soils/sediments. Washington, DC: U.S. Environmental Protection Agency, EPA/600/S4-90/026.

*Lorber M. 1972. Hematoxicity of synergized pyrethrin insecticides and related chemicals in intact, totally and subtotally splenectomized dogs. Acta Hepato-Gastroenterol 19:66-78.

*Mabey WR, Smith JH, Podoll RT, et al. 1982. Aquatic fate process data for organic priority pollutants. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards. EPA 440/4-81-014.

*MacGregor RR. 1954. Naphthalene poisoning from the ingestion of moth balls. Can Med Assoc J 70:313-314.

Mackay D, Shiu WY, Sutherland RP. 1979. Determination of air-water Henry's Law constants for hydrophobic pollutants. Environmental Science Technology 13:333-336.

*Mackell JV, Rieders F, Brieger H, et al. 1951. Acute hemolytic anemia due to ingestion of naphthalene moth balls. I. Clinical aspects. Pediatrics 71722-727.

*Mahvi D, Bank H, Harley R. 1976. Morphology of a naphthalene-induced bronchiolar lesion. Am 3 Pathol 86:559-572.

*Mamber SW, Bryson V, Katz SE. 1983. The *Escherichia coli* WP2/WPl00 ret assay for detection of potential chemical carcinogens. Mutation Research 119:135-144.

*Mamber SW, Bryson V, Katz SE. 1984. Evaluation of the *Escherichia coli* K12 inductest for detection of potential chemical carcinogens. Mutation Research 130: 141-151.

Manukovski NS, Teremova MI, Gurevich YL, et al. 1991~ Phenol and naphthalene degradation by mixed culture of microorganisms Institute of Biophysics, USSR Academy of Sciences 155-163.

*Marco MP, Nasiri M, Kurth MJ, et al. 1993. Enzyme-linked immunosorbent assay for the specific detection of the mercapturic acid metabolites of naphthalene. Chem Res Toxicol 6:284-293.

*McCann J, Choi E, Yamasaki E, et al. 1975. Detection of carcinogens as mutagens in the Salmonellalmicrosome test: Assay of 300 chemicals. Proc Nat1 Acad Sci 72:5135-5139.

McCoy EC, Rosenkranz EJ, Petrullo LA, et al. 1981. Structural basis of the mutagenicity in bacteria of nitrated naphthalene and derivatives. Environ Mutagen 3:499-511.

*McGilvery RW. 1983. Biochemistry a function approach. 3rd ed. In: W. B. Saunders Company. 741.

McCreary JJ, Jackson JG, Zoltek J. 1983. Toxic chemicals in an abandoned phenolic waste site. Chemosphere 12:1619-1632.

*McMurray WC. 1977. Essentials of human metabolism. 2nd ed. Philadelphia, PA: Harper & Row, *252-254.*

Melancon MJ Jr, Lech JJ. 1979. Uptake, biotransformation, disposition, and elimination of 2-methylnaphthalene and naphthalene in several fish species. Proceedings of the 2nd Annual Symposium on Aquatic Toxicology, 5-22.

*Melancon MJ, Rickert DE, Lech JJ. 1982. Metabolism of 2-methylnaphthalene in the rat *in vivo:* I. Identification of 2-naphthoylglycine. Drug Metab Dispos 10:128-133.

*Melancon MJ, Williams DE, Buhler DR, et al. 1985. Metabolism of 2-methylnaphthalene by rat and rainbow trout hepatic microsomes and purified cytochromes P-450. Drug Metab Dispos 13:542-547.

*Melzer-Lange M, Walsh-Kelly C. 1989. Naphthalene-induced hemolysis in a black female toddler deficient in glucose-6-phosphate dehdrogenase. Pediatr Emerg Care 5:24-26.

*Michael EC, Pellizzari ED, Wiseman RWO 1988. Development and evaluation of a procedure for determining volatile organics in water. Environmental Science Technology 22:565-570.

Mihelcic JR, Luthy RG. 1991. Sorption and microbial degradation of naphthalene in soil-water suspensions under denitrification conditions. Environmental Science Technology 25:169-177.

*Minyard JP, Roberts, WE. 1991. Chemical contaminants monitoring. State findings on pesticide residues in foods - 1988 and 1989. Assoc Off Anal Chem 74:438-452.

Miura R, Honmaru S, Nakazaki M. 1968. The absolute configurations of the metabolites of naphthalene and phenanthrene in mammalian systems. Tetrahedron Lett 50:5271-5274.

Morgan DP. 1982. Pesticide toxicology. In: Tu AT, ed. Survey of contemporary toxicology. Vol 2. New York, NY: John Wiley and Sons, l-36.

*Mortelmans K, Haworth S, Lawlor T, et al. 1986. *Salmonella* mutagenicity tests: II. Results from the testing of 270 chemicals. Environmental Mutagenesis 8: l-119. [Retrieval in Progress]

Mumford JL, Williams RW, Walsh DB, et al. 1991. Indoor air pollutants from unvented kerosene heater emissions in mobile homes: Studies on particles, semivolatile organics, carbon monoxide, and mutagenicity. Environmental Science Technology 25:1732-1738.

*Murano H, Kojima M, Sasaki K. 1993. Differences in naphthalene cataract formation between albino and pigmented rat eyes. Ophthalmic Res 25:16-22.

*Murata Y, Denda A, Maruyama H, et al. 1993. Chronic toxicity and carcinogenicity studies of l-methylnaphthalene in B6C3Fl mice. Fundam Appl Toxicol 21:44-51.

*Murray AD, Lockhart WL. 1988. Determination of trace volatile organic compounds in fish tissues by gas chromatography. J Assoc Off Anal Chem 71:1086-1089.

Nagata K, Martin BM, Gillette JR, et al. 1990. Isozymes of cytochrome P-450 that metabolize naphthalene in liver and lung of untreated mice. Drug Metab Dispos 18:557-564.

Naiman JL, Kosoy MH. 1964. Red cell glucose-6-phosphate dehydrogenase deficiency - a newly recognized cause of neonatal jaundice and kernicterus in Canada. Can Med Assoc J 91: 1243-1249.

*Nakamura S, Oda Y, Shimada T, et al. 1987. SOS-inducing activity of chemical carcinogens and mutagens in *Salmonella typhimurium* TA1535/pSKl002: examination with 151 chemicals. Mutation Research 192:239-246.

*NAS/NRC. 1989. Biologic markers in reproductive toxicology. National Academy of Sciences/National Research Council. Washington, DC: National Academy Press, 15-35.

NATICH. 1988. NATICH database report on state, local and EPA air toxics activities. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality, Planning and Standards, National Air Toxics Information Clearing House.

*NATICH. 1995. NATICH database report on state, local and EPA air toxics activities. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality, Planning and Standards, National Air Toxics Information Clearing House.

*NIOSH. 1977. Naphthalene - method S292. In: NIOSH manual of analytical methods. Vol 3. Cincinnati, OH: National Institute for Occupational Safety and Health.

*NIOSH. 1980. Worker exposure to polyaromatic hydrocarbons at selected petroleum refinery process units of Sun Oil Refinery, Tulsa, Oklahoma. Report to National Institute for Occupational Safety and Health, Cincinnati, OH, by Enviro Control, Inc., Rockville, MD. NTIS No. PB81-236846.

*NIOSH. 1984a. Hydrocarbons, aromatic - method 1501. In: NIOSH manual of analytical methods. 3rd ed. Cincinnati, OH: National Institue for Occupational Safety and Health.

*NIOSH. 1984b. Polynuclear aromatic hydrocarbons - method 5515-l to 5515-6. In: NIOSH manual of analytical methods. 3rd ed. Cincinnati, OH: National Institute for Occupational Safety and Health.

*NIOSH. 1985. NIOSH pocket guide to chemical hazards. Washington, DC: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.

*NIOSH. 1988a. National Occupational Exposure Survey. Cincinnati, OH: National Institute for Occupational Safety and Health.

*NIOSH. 1988b. National Occupational Hazard Survey. Cincinnati, OH: National Institute for Occupational Safety and Health.

*NIOSH. 1992. National Institute for Occupational Safety and Health. NIOSH pocket guide to chemical hazards. Washington, DC: U.S. Department of Health and Human Services, 158.

*NLM. 1995. Chemline. National Library of Medicine, Bethesda, MD.

NTP. 1988a. National Toxicology Program: Fiscal year 1988 annual plan. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service.

NTP. 1988b. National Toxicology Program: Review of current DHHS, DOE, and EPA research related to toxicology. Fiscal year 1988. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service.

*NTP. 1989. Chemical status report produced from NTP Chemtrack system. Research Triangle Park, NC: National Toxicology Program, Division of Toxicology Research and Testing, 1-21.

*NTP. 1991a. Developmental toxicity of naphthalene (CAS No. 91-20-3) administered by gavage to Sprague-dawley (CD) rats on gestational days 6 through 15. Research Triangle Park, NC: National

Toxicology Program, National Institute of Environmental Health Sciences, U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health. TER-91006.

NTP. 1991b. Developmental toxicity of naphthalene (CAS No. 91-20-3) administered by gavage to Sprague-dawley (CD) rats on gestational days 6 through 15. Laboratory Supplement. Research Triangle Park, NC: National Toxicology Program, National Institute of Environmental Health Sciences, U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health. TER-91006.

*NTP. 1992a. National Toxicology Program. Technical report series No. 410. Toxicology and carcinogenesis studies of naphthalene (CAS No. 91-20-3) in B6C3F_1 mice (inhalation studies). Research Triangle Park, NC: US. Department of Health and Human Services, Public Health Service, National Institutes of Health. NIH Publication No. 92-3141.

*NTP. 1992b. Developmental toxicity of naphthalene (CAS No. 91-20-3) administered by gavage to New Zealand white rabbits on gestational days 6 through 9. Research Triangle Park, NC: National Toxicology Program, National Institute of Environmental Health Sciences, U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health. TER-91021.

*O'Brien KA, Smith LL, Cohen GM. 1985. Differences in naphthalene-induced toxicity in the mouse and rat. Chem Biol Interact 55:109-122.

*O'Brien KA, Suverkropp C, Kanekal S, et al. 1989. Tolerance to multiple doses of the pulmonary toxicant, naphthalene. Toxicol Appl Pharmacol 99:487-500.

Oesch F, Daly J. 1972. Conversion of naphthalene to trans-naphthalene dihydrodiol: Evidence for the presence of a coupled aryl monooxygenase-epoxide hydrase system in hepatic microsomes. Biochem Biophys Res Commun 46:1713-1720.

Ogino S, Tojo H, Fujishige I, et al. 1957. Biochemical studies on cataract: IX. Contribution to the histopathology of cataract caused by various guinoid substances. Am J Ophthalmol 44:94-105.

*Ojwang PJ, Ahmed-Jushuf IH, Abdullah MS. 1985. Naphthalene poisoning following ingestion of moth balls: Case report. East Afr Med J 62:72-73.

*Orzalesi N, Migliavacca L, Miglior S. 1994. Subretinal neovascularization after naphthalene damage to the rabbit retina. Invest Ophthalmol Vis Sci 35:696-705.

*OSHA. 1995. U.S. Department of Labor. Occupational Safety and Health Administration. Code of Federal Regulations. 29 CFR 1910.1000, Table Z-l.

*OTA. 1990. Neurotoxicity: Identifying and controlling poisons of the nervous system. Washington, DC: Office of Technology Assessment, U.S. Congress. OTA-BA-436. April 1990.

*Pankow JF, Ligocki MP, Rosen ME, et al. 1988. Adsorption/thermal desorption with small cartridges for the determination of trace aqueous semivolatile organic compounds. Anal Chem 60:40-47.

*Papciak RJ, Mallory VT. 1990. Acute toxicological evaluation of naphthalene. Journal of the American College of Toxicology Part B: Acute toxicity data l(1): 17-19.

*Park KS, Sims RC, Dupont RR, et al. 1990. Fate of PAH compounds in two soil types: Influence of volatilization, abiotic loss and biological activity. Environemntal Toxicology and Chemistry 9:187- 195.

Parkin DM, Wahrendorf 9, Demaret E. 1987. Directory of on-going research in cancer epidemiology. Lyon, France: International Agency for Research on Cancer, 390, 608.

Patty FA ed. 1963. Industrial hygiene and toxicology. Vol. 2. New York, NY: John Wiley and Sons.

Pedersen LM, Cohr K-H. 1984. Biochemical pattern in experimental exposure of humans to white spirit. I. The effects of a 6 hours single dose. Acta Pharmacol Toxicol 55:317-324.

*Pellizzari ED, Hartwell TD, Benjamin SH, et al. 1982. Purgeable organic compounds in mother's milk. Bull Environ Contam Toxicol 28:322-328.

Perry DL, Chuang CC, Jungclaus GA, et al. 1979. Identification of organic compounds in industrial effluent discharges Report to U.S. Environmental Protection Agency, Office of Research and Development, Athens, GA, by Battelle Columbus Laboratories, Columbus, OH. EPA-600/4-79-016.

Pettersson B, Curvall M, Enzell CR. 1980. Effects of tobacco smoke compounds on the noradrenaline induced oxidative metabolism in isolated brown fat cells. Toxicology 18:1-15.

Philpot RM, Wolf CR. 1981. The properties and distribution of the enzymes of pulmonary cytochrome P-450-dependent monoxygenase systems. In: Hodgson E, Bend Jr, Philpot RM, eds. Reviews in biochemical toxicology. Vol. 3. New York, NY: Elsevier Science Publications, 51-76.

Pinal R, Suresh P, Rao C, et al. 1990. Cosolvency of partially miscible organic solvents on the solubility of hydrophobic organic chemicals. Environmental Science Technology 24:639-647.

Pirie A, van Heyningen R. 1966. Biochemistry of the eye. Springfield, IL: Charles C. Thomas, Publisher. 127-131.

Plant AL, Pownall HJ, Smith LC. 1983. Transfer of polycyclic aromatic hydrocarbons between model membranes: relation to carcinogenicity. Chem Biol Interactions 44:237-246.

*Plasterer MR, Bradshaw WS, Booth GM, et al. 1985. Developmental toxicity of nine selected compounds following prenatal exposure in the mouse: Naphthalene, p-nitrophenol, sodium selenite, dimethyl phthalate, ethylenethiourea and four glycol ether derivatives. Toxicol Environ Health 15:25-38.

Plopper CC, Chang AM, Pang A, et al. 1991. Use of microdissected airways to define metabolism and cytotoxicity in murine bronchiolar epithelium. Exp Lung Res 17:197-212.

*Plopper CG, Suverkropp C, Morin D, et al. 1992a. Relationship of cytochrome P-450 activity to Clara cell cytotoxicity. I. Histopathologic comparison of the respiratory tract of mice, rats and hamsters after parenteral administration of naphthalene. J Pharmacol Exp Ther 261:353-363.

*Plopper CG, Macklin J, Nishio SJ, et al. 1992b. Relationship of cytochrome P-450 activity to Clara cell cytotoxicity. Laboratory Investigation 67(5):553-565.

Poitrast B.I, Keller WC, Elves RG. 1988. Estimation of chemical hazards in breast milk. Aviat Space Environ Med 11:87-92.

*PRI. 1985a. Primary dermal irritation study in rabbits (83/EPA): Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 420-TX-013-84.

*PRI. 1985b. Rabbit eye irritation study (WASH): Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 421-TX-009-84.

*PRI. 1985c. Delayed contact hypersensitivity in guinea pigs: Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research InternationaL Inc., Waverly, PA. PH 424-TX-001-84.

*PRI. 1985d. Micronucleus test (MNT) (OECD): Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 309A-TX-007-85.

*PRI. 1985e. Rat hepatocyte primary culture/DNA repair test. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 31 B-TX-008-85.

PRI. 1985f. Acute exposure dermal toxicity (82 EPA/OECD): Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 422-TX-002-84.

PRI. 1985g. Acute exposure oral toxicity (83 EPA/OECD): Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 402-TX-002-84.

PRI. 1985h. Ames SaZmoneZZulmicrosome plate test (EPA/OECD): Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 301-TX-020-85.

*PRI. 1985i. Dose-range-finding-developmental toxicity study in rabbits: Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 329DR-TX-001-85.

PRI. 1985j. Repeated dose dermal toxicity - rat: 28 Day dose range finding study: Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 434-TX-001-85.

*PRI. 1986. Developmental toxicity study in rabbits: Naphthalene. Report to Texaco, Inc., Beacon, NY, by Pharmakon Research International, Inc., Waverly, PA. PH 329-TX-001-85.

*Propper R. 1988. Polycyclic aromatic hydrocarbons (PAH). A candidate toxic air contaminant. Air Resources Board. Springfield, VA: National Technical Information Service. TR SS-88-01.

Radding SB, Mill T, Gould CW, et al. 1976. The environmental fate of selected polynuclear aromatic hydrocarbons. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances. EPA 560/5-75-009. NTIS No. PB-250948.

*Rae GS, Pandya KP. 1981. Biochemical changes induced by naphthalene after oral administration in albino rats. Toxicol Lett 8:311-315.

*Rasmussen RE, Do DH, Kim TS, et al. 1986. Comparative cytotoxicity of naphthalene and its monomethyl- and mononitro-derivatives in the mouse lung. J Appl Toxicol 6:13-20.

*Rathbun WB, Holleschau AM, Murray DL, et al. 1990. Glutathione synthesis and glutathione redox pathways in naphthalene cataract of the rat. Curr Eye Res 9:45-53.

Rawlings GD, DeAngelis DG. 1979. Toxicity removal in textile plant waste waters. Journal American Leather Chemistry Association 74:404-417.

*Rees JR, Pirie A. 1967. Possible reactions of 1,2-naphthaquinone in the eye. Biochem J 102:853-863.

Reid WD, Ilett KF, Glick JM, et al. 1973. Metabolism and binding of aromatic hydrocarbons in the lung. Am Rev Respir Dis 107:539-551.

*Rhim JS, Park DK, Weisburger EK, et al. 1974. Evaluation of an in vitro assay system for carcinogens based on prior infection of rodent cells with nontransforming RNA tumor virus. J Natl Cancer Inst 52:1167-l173.

Richieri PR, Buckpitt AR. 1985. Comparative biochemistry and metabolism. Part 2. Naphthalene lung toxicity. Wright-Patterson Air Force Base, OH: Air Force Systems Command, Aerospace Medical Division, Aerospace Medical Research Laboratory. AMRL-TR-85-069.

Richieri PR, Buckpitt AR. 1987. Efflux of naphthalene oxide and reactive naphthalene metabolites from isolated hepatocytes. J Pharmacol Exp Ther 242:485-492.

Richieri PR, Buckpitt AR. 1988. Glutathione depletion by naphthalene in isolated hepatocytes and by naphthalene oxide *in vivo.* Biochem Pharmacol 37:2473-2478.

Rio J, Manning T. 1988. An investigation of the toxic effects of combustion products-analysis of smoke components. J Anal Tox 12:274-278.

*Rittman BE, McCarty PL, Roberts PV. 1980. Trace-organics biodegradation in aquifer recharge. Ground Water 18:236-43.

*Roberts PV, McCarty PL, Reinhard M, et al. 1980. Organic contaminant behavior during groundwater recharge. J Water Pollut Control Fed 52:161-171.

Robinson AG, Dillaman RM. 1985. The effects of naphthalene on the ultrastructure of the hepatopancreas of the fiddler crab, Uca *minux.* J Invertebr Pathol 45:31l-323.

*Rosenfeld JK, Plumb RH. 1991. Ground water contamination at wood treatment facilities. Ground Water Monitoring Review II:133-140.

*Rossa V, Pau H. 1988. Is the experimental naphthalene cataract a model for human senile cataract? Graefes Arch Clin Exp Ophthalmol 226:291-293.

*Rozman K, Summer KH, Rozman T, et al. 1982. Elimination of thioethers following administration of naphthalene and diethylmaleate to the rhesus monkey. Drug Chem Toxicol 5:265-275.

Russell P, Yamada T, Xu GT, et al. 1991. Effects of naphthalene metabolites on cultured cells from eye lens. Free Radic Biol Med 10:255-261.

*Ruth JH. 1986. Odor thresholds and irritation levels of several chemical substances: A review. Am Ind Hyg Assoc J:47:A-142-151.

Ruzo L, Jones D, Safe S, et al. 1976. Metabolism of chlorinated naphthalenes. J Agric Food Chem 24:581-583.

Sabljic A, Guesten H, Schoenherr J, et al. 1990. Modeling plant uptake of airborne organic chemicals. 1. Plant cuticle/water partitioning and molecular connectivity. Environmental Science Technology 24:1321-1326.

*Sakai M, Yoshida D, Mizusaki S. 1985. Mutagenicity of polycyclic aromatic hydrocarbons and quinones on *Salmonella typhimurium* TA97. Mutation Research 156:61-67.

Salmony D. 1960. Some biochemical changes in naphthalene cataract. Br J Ophthalmol 44:29-34.

Sandmeyer EE. 1981. Aromatic hydrocarbons. In: Clayton GD, Clayton FE, eds. Patty's industrial hygiene and toxicology. 3rd ed. Vol. 2B: Toxicology. New York, NY: John Wiley and Sons, 3256-3258, 3333-3343.

*Santhanakrishnan BR, Ranganathan G, Balagopala Raju V. 1973. Naphthalene induced haemolytic anaemia with haemoglobinuria. Indian J Pediatr 40:195-197.

*Sax NI, Lewis RJ Sr. 1987. Hawley's condensed chemical dictionary. New York, NY: Van Nostrand Reinhold Company, 775, 806.

*Sax NI, Lewis RJ. 1989. Dangerous properties of industrial materials. 7th ed. New York, NY: Van Nostrand Reinhold Company, 2341-2342, 2451-2452.

*Schafer WB. 195 1. Acute hemolytic anemia related to naphthalene: Report of a case in a newborn infant. Pediatrics 7:172-174.

Schlotzhauer WS, Chortyk OT. 1987. Recent advances in studies on the pyrosynthesis of cigarette smoke constituents. J Anal Appl Pyrolysis 12:193-222.

*Schmahl D. 1955. The testing of naphthalene and anthracene for a carcinogenic effect on rats. Z Krebsforsch 60:697-710.

*Schmeltz I, Tosk J, Hoffman D. 1976. Formation and determination of naphthalene in cigarette smoke. Anal Chem 48:645-650.

*Schmeltz I, Tosk J, Hilfrich J, et al. 1978. Bioassays of naphthalene and alkylnaphthalenes for co-carcinogenic activity. Relation to tobacco carcinogenesis. In: Jones PW, Freudenthal RI, eds. Carcinogenesis. Vo1.3: Polynuclear aromatic hydrocarbons. New York, NY: Raven Press, 47-60.

Schnoor JL, Sato C, McKechnie D, et al. 1987. Processes, coefficients, and models for simulating toxic organics and heavy metals in surface waters. Athens, GA: U.S. Environmental Protection Agency, Environmental Laboratory. EPA-600/3-87-015.

Schultz TW, Moulton MP. 1985. Structure-toxicity relationships of selected naphthalene derivatives. II. Principal components analysis. Bull Environ Contam Toxicol 34:1-9.

Schwarz FP, Wasik SP. 1976. Fluorescence measurements of benzene, naphthalene, anthracene, pyrene, fluoranthene, and benzo[e]pyrene in water. Anal Chem 48524-528.

Schwarz LR, Mezger M, Hesse S. 1980. Effect of decreased glucuronidation and sulfation on covalent binding of naphthalene in isolated rat hepatocytes. Toxicology 17: 119-122.

*Schwarzenbach RP, Westall, J. 1981. Transport of nonpolar organic compunds from surface water to groundwater. Laboratory sorption studies Environ Sci Tech01 1511360-1367.

*Schwarzenbach RP, Giger W, Hoehn E, et al. 1983. Behavior of organic compounds during infiltration of river water to groundwater. Environmental Science Technology 17:472-479.

Sears GW, Hopke ER. 1949. Vapor pressures of naphthalene, anthracene and hexachlorobenzene in a low pressure region. J Am Chem Sot 71:1632-1634.

*Seixas GM, Andon BM, Hollingshead PG, et al. 1982. The aza-arenes as mutagens for *Salmonella typhimuirium.* Mutation Research 102:201-212. [Retrieval in Progess]

Selzer M, Wegener A, Hockwin 0. 1991. Regional enzyme profiles in rabbit lenses with early stages of naphthalene cataract. Lens and Eye Toxicity Research 8:415-430.

*Shah JJ, Heyerdahl EK. 1988. National ambient volatile organic compounds (VOCs) data base update. Research Triangle Park, NC: U.S. Environmental Protection Agency, Atmospheric Sciences Research Laboratory, Office of Research and Development. EPA/600/3-88/010a.

*Shane BS, Henry CB, Hotchkiss JH, et al. 1990. Organic toxicants and mutagens in ashes from eighteen municipal refuse incinerators. Arch Environ Toxicol 19:665-673.

Shank RC, Barrows LP, Buckpitt AR. 1980. Comparative metabolism of hydrazine and naphthalene. Wright-Patterson Air Force Base, OH: Air Force Systems Command, Aerospace Medical Division, Aerospace Medical Research Laboratory. AMRL-TR-80- 103.

*Shannon K, Buchanan GR. 1982. Severe hemolytic anemia in black children with glucose-6-phosphate dehydrogenase deficiency. Pediatrics 70:364-369.

Shepard TH. 1986. Catalog of teratogenic agents. 5th Ed. In: Johns Hopkins University Press.

*Shichi H, Tanaka M, Jensen NM, et al. 1980. Genetic differences in cataract and other ocular abnormalities induced by paracetamol and naphthalene. Pharmacology 20:229-241.

*Shopp GM, White KL JR, Holsapple MP, et al. 1984. Naphthalene toxicity in CD-l mice: General toxicology and immunotoxicology. Fundam Appl Toxicol 4:406-419.

*Siegel E, Wason S. 1986. Mothball toxicity. Pediatric Clinics of North America 33:369-374.

*Sina JF, Bean CL, Dysart GR, et al. 1983. Evaluation of the alkaline elution/rat hepatocyte assay as a predictor of carcinogenic/mutagenic potential. Mutat Res 113:357-391.

Sittig M. 1985. Handbook of toxic and hazardous chemicals and carcinogens. 2nd ed. Park Ridge, NJ: Noyes Publications, 630-632.

Smart G, Buckpitt AR. 1983. Formation of reactive naphthalene metabolites by target vs non-target tissue microsomes: Methods for the separation of three glutathione adducts. Biochem Pharmacol 321943-946.

Smith RM. 1988. Supercritical fluid chromatography. Letchworth, England: Royal Society of Chemistry.

Sollmann T. 1957. A manual of pharmacology and its applications to therapeutics and toxicology. 8th ed. Philadelphia, PA: W. B. Saunders Company, 821.

*Southworth GR, Beauchamp JJ, Schmieder PK. 1978. Bioaccumulation potential of polycyclic aromatic hydrocarbons in Duphnia pulex. Water Res 12:973-977.

Spicer CW, Miller DF, Levy A. 1974. Inhibition of photochemical smog reactions by free radical scavengers. Environmental Science Technology 8: 1028-1030.

SRI. 1985. Directory of chemical producers: United States of America. 537, 633, 720, 728.

SRI. 1986. Directory of chemical producers: United States of America. 605, 713, 812, 821.

SRI. 1987. Directory of chemical producers: United States of America. 589, 697, 799, 808.

SRI. 1988. Directory of chemical producers: United States of America. 578, 684, 784, 793.

SRI. 1990. Directory of chemical producers: United States of America. 580, 694, 795, 805.

*SRI. 1992. Directory of chemical producers: United States of America. 580, 695, 792, 801,

*Srivastava SK, Nath R. 1969. Metabolic alterations in experimental cataract. Part I. Inhibition of lactate dehydrogenase and appearance of o-diphenol oxidase in cataractous lens of naphthalene fed rabbits. Indian J Med Res 57:225-227.

*Stanley JS. 1986. Broad scan analysis of the FY82 national human adipose tissue survey specimens: Volume I - executive summary. Washington, DC: U.S. Environmental Protection Agency, Office of Toxic Substances.

*Staples CA, Werner AF, Hoogheem TJ. 1985. Assessment of priority pollutant concentrations in the United States using STORET database. Environ Toxicol Chem 4: 131-142.

Stillwell WG, Bouwsma OJ, Thenot JP, et al. 1978. Methylthio metabolites of naphthalene excreted by the rat. Res Commun Chem Pathol Pharmacol 20:509-530.

*Stillwell WG, Homing MG, Griffin GW, et al. 1982. Identification of new sulfur-containing metabolites of naphthalene in mouse urine. Drug Metab Dispos 10:624-631.

*Stutz DR, Janusz SJ. 1988. Hazardous materials injuries: A handbook for pre-hospital care. Second edition. Beltsville, MD: Bradford Communications Corporation.

*Summer KH, Rozman K, Coulston F, et al. 1979. IJrinary excretion of mercapturic acids in chimpanzees and rats. Toxicol Appl Pharmacol 50:207-212.

*Tabak HH, Quave SA, Mashni CI, et al. 1981. Biodegradability studies with organic priority pollutant compounds. J Water Pollution Control Federation 10:1503-1518.

Taki T, Nakazima T, Emi Y, et al. 1986. Accumulation of surfactant phospholipids in lipid pneumonia induced with methylnaphthalene. Lipids 9548-552.

Tancrede M, Wilson R, Zeise L, et al. 1987. The carcinogenic risk of some organic vapors indoors: A theoretical survey. Atmos Environ 21:2187-2205.

*Tao RV, Holleschau AM, Rathbun WB. 1991 1-Naphthalene-induced cataract in the rat. Ophthalmic Res 23:272-283.

*Tarshis IB. 1981. Uptake and depuration of petroleum hydrocarbons by crayfish. Arch Environ Contam Toxicol 10:79-86.

Teschke K, Hertzman C, Van Netten C, et al. 1989. Potential exposure of cooks to airborne mutagens and carcinogens. Environ Res 50:296-308.

*Teshima R, Nagamatsu K, Ikebuchi H, et al. 1983. In viva and in vitro metabolism of 2-methylnaphthalene in the guinea pig. Drug Metab Dispos 11: 152-157.

Thibodeaux LJ. 1979. Chemodynamics: Environmental movement of chemicals in air, water and soil. New York, NY: John Wiley and Sons, 456-457.

Thienes CH, Haley TJ. 1964. Acacia, halogenated hydrocarbons, milk sickness, phosphorus and miscellaneous liver poisons. In: Clinical Toxicology, 4th Ed. Philadelphia, PA: Lea & Febiger.

*Thornann RV. 1989. Bioaccumulation model of organic chemical distribution in aquatic food chains. Environmental Science Technology 23:699-707.

*Thornann RV, Mueller JA. 1987. Principles of surface water quality modeling and control. New York, NY: Harper and Row, Publishers, 508-509.

Thomas RG. 1982. Volatilization from water. In: Lyman WJ et al. ed. Handbook of chemical property estimation methods. New York, NY: McGraw-Hill, 15-1-15-34.

*Tingle MD, Pirmohamed M, Templeton E, et al. 1993. An investigation of the formation of cytotoxic, genotoxic, protein-reactive and stable metabolites from naphthalene by human liver microsomes. Biochem Pharmacol 46:1529-1538.

*Tonelli Q, Custer RP, Sorof S. 1979. Transformation of cultered mouse mammary glands by aromatic amines and amides and their derivatives. Cancer Res 39:1784-1792.

*Tong SS, Hirokata Y, Trush MA, et al. 1981. Clara cell damage and inhibition of pulmonary mixed-function oxidase activity by naphthalene. Biochem Biophys Res Commun 100:944-950.

*Tong SS, Lowe MC, Trush MA, et al. 1982. Bronchiolar epithelial damage and impairment of pulmonary microsomal monooxygenase activity in mice by naphthalene. Exp Mol Pathol 37:358-369.

TPCDB. 1988. Testing Priority Committee Data Base. U.S. Environmental Protection Agency, Office of Toxic Substances, Washington, DC.

*Traynor GW, Apte MG, Sokol HA. 1990. Selected organic pollutant emissions from unvented kerosene space heaters. Environmental Science Technology 24:1265-1270.

*TRI92. 1994. Toxic chemical release inventory. National Library of Medicine, National Toxicology Information Program, Bethesda, MD.

*Tsuda H, Lee G, Farber E. 1980. Induction of resistant hepatocytes as a new principle for a possible short-term in viva test for carcinogens. Cancer Res 40: 1157-l 164.

*Turkall RM, Skowronski GA, Kadry AM, et al. 1994. A comparative study of the kinetics and bioavailability of pure and soil-adsorbed naphthalene in dermally exposed male rats. Arch Environ Contam Toxicol 26:504-509.

USDA (U.S. Department of Agriculture). 1978. Food consumption, prices and expenditures. Washington, DC: U.S. Department of Agriculture. Agriculture Economic Report No. 138.

USITC. 1988. Synthetic organic chemicals: United States production and sales, 1987. Washington, DC: United States International Trade Commission. USITC Publication 2118.

USITC. 1991. United States International Trade Commission. Synthetic organic chemicals, United States production and sales, 1990. Washington, DC. December 1991. USITC Publication No. 2470.

*Uyama Y, Ogino S, Ichihara T. 1955. Biochemical study on the genesis of naphthalene cataract: I. The cataractogenic substance excreted in the urine of rabbit treated with naphthalene. Med J Osaka Univ 6:229-239.

*Valaes T, Doxiadis SA, Fessas P. 1963. Acute hemolysis due to naphthalene inhalation. J Pediatr 63:904-915.

Van Bladeren PJ, Vyas KP, Sayer JM, et al. 1984. Stereoselectivity of cytochrome P-450c in the formation of naphthalene- and anthracene-1,2-oxides. J Biol Chem 259:8966-8973.

*Van der Hoeve J. 1906. [Chorioretinitis in humans from the effects of naphthalene.] Arch Augenheilkd 56:259-262. (German).

*Van Heyningen R. 1970. Ascorbic acid in the lens of the naphthalene-fed rabbit. Exp Eye Res 9:38-48.

*Van Heyningen R. 1976. Experimental studies on cataract. Invest Ophthalmol Vis Sci 15:685-697.

*Van Heyningen R. 1979. Naphthalene cataract in rats and rabbits: A resume. Exp Eye Res 28:435-439.

*Van Heyningen R, Pirie A. 1967. The metabolism of naphthalene and its toxic effect on the eye. Biochem J 102:842-852.

*Van Heyningen R, Pirie A. 1976. Naphthalene cataract in pigmented and albino rabbits. Exp Eye Res 221393-394.

Veigl ML, Niedel JE, Sedwick Wd. 1984. Induction of myeloid differentiation with naphthalene sulfonamide calmodulin antagonists [Abstract]. Proceedings of the American Association for Cancer Research 25:44.

*Veith GD, DeFoe DE, Bergstedt BV. et al. 1979. Measuring and estimating the bioconcentration factor of chemicals in fish. Journal Fish Research Board Canada 36:1040-1048.

*Verschueren K. 1983. Handbook of environmental data on organic chemicals. 2nd ed. New York, NY: Van Nostrand Reinhold Company, 862-865, 890-899.

Villanueva J, Rose11 A, Grimalt JO, et al. 1991. Chemical characterization of polycyclic aromatic hydrocarbon mixtures in uncontrolled hazardous waste dumps. Chemosphere 22:317-326.

*Wakeham SG, Davis AC, Karas IL. 1983. Mesocosm experiments to determine the fate and persistence of volatile organic compounds in coastal seawater. Environmental Science Technology 17:611-617.

*Walters SM. 1986. Cleanup of samples. In: Zweig G, Sherma J, eds. Analytical methods for pesticides and plant growth regulators. Vol. 15. Principles, statistics, and applications. New York, NY: Academic Press, Inc., 67-110.

*Warren DL, Brown DL Jr, Buckpitt AR. 1982. Evidence for cytochrome P-450 mediated metabolism in the bronchiolar damage of naphthalene. Chem Biol Interact 40:287-303.

*Weast RC, Astle MJ, Beyer WH, eds. 1985. CRC handbook of chemistry and physics: A ready-reference book of chemical and physical data. Boca Raton, FL: CRC Press, Inc., C-357, C-361.

Weisburger JH, Mantel N, Weisburger EK, et al. 1967. New carcinogenic naphthalene and biphenyl derivatives Nature 213:930-931.

*Weissenfels WD, Klewer HJ, Langhoff J. 1992. Adsorption of polycyclic aromatic hydrocarbons (PAHs) by soil particles: influence on biodegradability and biotoxicity. Appl Microbial Biotechnol 36:689-696.

*Wells PG, Wilson B, Lubek BM. 1989. *In vivo* murine studies on the biochemical mechanism of naphthalene cataractogenesis. Toxicol Appl Pharmacol 99:466-473.

Westendorf RG. 1989. Automatic sampler concepts for purge and trap GC. American Laboratory (February 1989):56-60.

Widdows J, Moore SL, Clarke KR, et al. 1983. Uptake, tissue distribution and elimination of [I-^{14}Clnaphthalene in the mussel *Mytilus edulis*. Marine Biology (Berlin) 76:109-114.

*Wild SR, Waterhouse KS, McGrath SP, et al. 1990. Organic contaminants in an agricultural soil with a known history of sewage sludge amendments: Polynuclear aromatic hydrocarbons. Environmental Science Technology 24: 1706- 1711.

Wildlife International. 1985. A dietary LC50 study in the bobwhite with naphthalene: Final report. Report to W.R. Landis Associates, Inc., Valdosta, GA, by Wildlife International Ltd., St. Michaels, MD. Project No. 190-105.

Wildlife International. 1985. An acute oral toxicity study in the bobwhite with naphthalene: Final report Report to W.R. Landis Associates, Inc., Valdosta, GA, by Wildlife International Ltd., St. Michaels, MD. Project No. 190-106.

*Wilson NK, Kuhlman MR, Chuang JC. 1989. A quiet sampler for the collection of semivolatile organic pollutants in indoor air. Environmental Science Technology 23:1112-1116.

Windholz M, Budavari S, Blumetti RF, et al., eds. 1983. The Merck index: An encyclopedia of chemicals, drugs, and biologicals. 10th ed. Rahway, NJ: Merck and Company, 914.

*Woolf AD, Saperstien A, Zarwin J, et al. 1993. Radiopacity of household deodorizers, air freshners, and moth repellents. J Toxicol Clin Toxicol 31:415-428.

*Xu GT, Zigler JS, Lou MF. 1992a. Establishment of a naphthalene cataract model in vitro. Exp Eye Res 54:73-81.

*Xu GT, Zigler JS, Lou MF. 1992b. The possible mechanism of naphthalene cataract in rat and its prevention by an aldose reductase inhibitor (AL01576). Exp Eye Res 54:63-72.

*Yamauchi T, Komura S, Yagi K. 1986. Serum lipid peroxide levels of albino rats administered naphthalene. Biochem Int 13:1-6.

*Yaws C, Yang HC, Pan X. 1991. Henry's law constants for 362 organic compounds in water. Chemical Engineering, 179-185.

Yost GS, Buckpitt AR, Roth RA, et al. 1989. Contemporary issues in toxicology. Mechanisms of lung injury by systemically administered chemicals. Toxicology and Applied Pharmacology 101:179-195.

Young L. 1947. The metabolic conversion of naphthalene to 1,2-dihydronaphthalene-1,2-diol. Biochem J 41:417-422.

*Yu X, Wang X, Bartha R, et al. 1990. Supercritical fluid extraction of coal tar contaminated soil. Environmental Science Technology 24:1732-1738.

*Zepp RG, Schlotzhauer PF. 1979. Photoreactivity of selected aromatic hydrocarbons in water. In: Jones PW, Leber P, eds. Polynuclear aromatic hydrocarbons. Ann Arbor, MI: Ann Arbor Science, 141-157.

*Zinkham WH, Childs B. 1957. Effect of vitamin K and naphthalene metabolites on glutathione metabolism of erythrocytes from normal newborns and patients with naphthalene hemolytic anemia. Am J Dis Child 94:420-423.

*Zinkham WH, Childs B. 1958. A defect of glutathione metabolism of erythrocytes from patients with naphthalene-induced hemolytic anemia. Pediatrics 22:461-471.

*Zlatkis A, Kim K. 1976. Column elution and concentration of volatile compounds in biological fluids. J Chromatogr 126:475-485.

*Zoeteman BC, Harmsen K, Linders JB, et al. 1980. Persistent organic pollutants in river water and ground water of the Netherlands. Chemoshpere 9:231-249.

*Zuelzer WW, Apt L. 1949. Acute hemolytic anemia due to naphthalene poisoning: A clinical and experimental study. JAMA 141: 185-190.